



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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May 27, 1998

To: File

Thru.: Daron Haddock, Permit Supervisor

A handwritten signature in black ink, appearing to read 'Daron Haddock'.

From: Wayne H. Western, Senior Reclamation Specialist

A handwritten signature in black ink, appearing to read 'Wayne H. Western'.

RE: Permit Boundary Deficiencies, Co-Op Mining Company, Bear Canyon Mine  
ACT/015/025, Folder #2, Emery County, Utah

## SUMMARY:

The Division discovered two deficiencies with the description of the permit boundaries of the Bear Canyon Mine.

- The location of permit boundaries associated with an incidental boundary change made in 1985 does not appear on Plate 2-1, Permit Boundary Map.
- The Division is unable to identify the geologic maps and fault used to establish part of the eastern permit boundary.

## TECHNICAL ANALYSIS:

### OPERATION PLAN

## ANALYSIS:

In 1985, the Permittee made an (IBC) incidental boundary change to include part of the federal coal lease U-024318. That lease consists of the W1/2 of the NW1/4 of Section 25 T.16S, R.7E. The IBC is in the northern part of the lease and is triangularly shaped.

The IBC was needed because the Permittee accidentally mined outside the permit boundary at the Bear Canyon mine. In some areas, the Permittee accidentally broke through to the surface. The breakouts are in Mitigation Area #1, shown on Plate 3-3, Subsidence Map.

The IBC is not shown on Plate 2-1, Permit Area Map. Under R645-301-521.140 and R645-301-521.160 the Permittee is required to give the Division a map showing the current permit boundaries. Under R645-301-121.200 the Permittee is required to present the information in the MRP in a clear and concise manner. **The Permittee must correct all maps so that they show the current permit boundaries including the IBC.**

Part of the eastern permit boundary for the Bear Canyon Mine is a northeast-southwest fault line. The Division looked at several geologic maps but was unable to identify the fault that corresponds to the permit boundary shown on Plate 2-1. The Permittee is required to identify the fault and give the Division references that show the location of the fault under:

- R645-301-121.200, the information in the MRP must be presented in a clear and concise manner. The Permittee does not state which fault is used to establish part of the eastern boundary. Several faults exist in the area.
- R645-301-122, reference materials will either be provided to the Division by the Permittee or be readily available to the Division. The Permittee did not identify the maps that show the location of the fault that defines the permit boundary.
- R645-301-521.190, the Permittee is required to give the Division other relevant information. The Division considers the name and location of the fault used to establish the part of the eastern permit boundary relevant information.

#### **FINDINGS:**

The Permittee did not meet the requirements of R645-301-521.140 and R645-301-521.160. The Permittee must show the correct permit boundaries including the IBC on all appropriate maps.

The Permittee did not meet the requirements of R645-301-121.200, R645-301-122 and R645-301-521.190 regarding the identification of the fault used to establish part of the eastern permit boundary. The Permittee must give the Division references for the name and location of the fault that establishes parts of the eastern permit boundary.